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<110> Genova Ltd.
        Argoud-Puy, Guilaine
Bederr, Nassima
Bougueleret, Lydie
Cusin, Isabelle
Mahé, Eve
         Niknejad, Anne
Reffas, Samia
Saudrais, Cédric
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<151> 2003-06-30
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Gly Phe Tyr Phe Gly Lys Asn Ser Ile Tyr Gly Lys Val Ile Glu Lys 35 40 45

Thr Asp Glu Glu Ile Arg Ser Leu Phe Tyr Glu Phe Pro Gln Thr Gln 50 60

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Pro Arg Ser Ser Asp Arg Lys 85

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Ser Ile Tyr Phe Ile Ile Ala Ala Met Leu Val Ala Thr Lys Ala Ala 50 60

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Glu Pro Gln Ile Val Gly Arg Phe Glu Thr Pro Leu Glu Phe Val Leu 50 60

Val Met Gln Ser Leu Val Gln Thr Asp Asn Lys Thr Ala Phe Ser Asp 75 75 80

Asn Phe Ser Tyr Lys Ser Arg Leu Ser Asp Lys Leu Pro Ser Val Pro 85 90 95

Leu Pro Ala Trp Met His Ser Trp Asn Leu Ala Phe His Lys Gly Ile 100 105 110

Arg Ile Ala Phe Arg Gln Cys Phe Asn His Pro Lys Ser Arg Met Tyr 115 120 125

Gln Ser Ser Leu Ala Asn Thr Val Leu Cys Ala Ser Phe Asp Tyr Leu 130 140

Phe Arg Asp Glu Glu Pro Gly Leu Ser Asn Ile Cys Thr Phe Ser Ser

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Leu Lys

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Ser Arg Ala Pro Lys Pro Pro Asp Pro Val Ala Ala Glu His Leu Asn 50 60

His Gly Gln Ser Arg Ser Asp Glu Leu Ser Ala Tyr Val Ser Thr Tyr 65 75 80

Leu Val Pro Gly Asn Val Leu Gly Thr Gly Asp Pro Met Thr Glu Asp 90 95

Pro Thr Met Glu Arg Pro Tyr Thr Phe Lys Asp Phe Leu Leu Arg Pro 105 110

Arg Arg Asp Val Ser Ser Glu Ser Asp Asn Asn Ile Arg Gln Ile Asn 115 . 120

Gln Glu Ala Ala His Arg Arg Phe Arg Ser Arg Arg His Ile Ser Glu
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Gln Trp Gly Thr Val Gln Leu Phe Asp Cys Trp Glu Glu Arg Lys Asp 210 220

Ala Lys Gly Arg Thr Tyr Tyr Val Asn His Asn Asn Arg Thr Thr Thr 225 235 230

Trp Thr Arg Pro Ile Met Gln Gly Ala Lys Asp Ser Pro Val Arg Arg 255

Ala Val Lys Asp Thr Leu Ser Asn Pro Gln Ser Pro Gln Pro Ser Pro 265 270

Tyr Asn Ser Pro Lys Pro Gln His Lys Val Thr Gln Ser Phe Leu Pro 275 280 285

Pro Gly Trp Glu Met Arg Ile Ala Pro Asn Gly Arg Pro Phe Phe Ile 290 300

Asp His Asn Thr Lys Thr Thr Trp Val Arg Leu Leu Leu Phe 310

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His Ser Val Asp Pro Ser Ile Ala Ser Pro Ser Pro Glu Ala Ala Ala 50 60

Leu Cys Val Pro Asp Asp Asn Leu Gly Ile Gly Thr Asn Gln Tyr Gln 65 75 80

Glu Trp Val Cys Trp Glu Arg Ala Leu Arg Leu Thr Arg Met Asp Ser 85 90 95

Ile Asn Gln Ala Pro Leu Pro Cys Ile Leu Ser Cys Ile Gly Ala Met 100 105 110

Glu Ala Thr Ala Leu Leu Arg Pro Val Ser Cys Leu Thr Phe Arg Lys 115 120 125

Cys Val Asp Tyr Phe Trp Leu Arg Val Glu Arg Glu Ile Ala Trp Glu 130 140

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Val Arg Val Gly Lys Asp Leu Phe Lys Glu Asn Tyr Glu Pro Leu Phe 50 60

Glu Lys Ile Arg Glu Asp Glu Asn Lys Trp Lys Asn Ile Pro Tyr Ser 75 80

Trp Ile Gly Thr Ile Asn Ile Val Lys Met Ala Ile Leu Pro Lys Val

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90

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Ile Tyr Arg Phe Asn Ala Thr Leu Ile Glu Leu Pro Trp Ala Phe Phe 100 100

Thr Glu Leu Glu Lys Thr Thr Leu Lys Phe Ile Trp Asn Gln Lys Arg

Ala His Ile Ala Lys Lys Ile Leu Ser Lys Lys Asn Lys Ala Gly Gly 130 140

Ile Met Leu Pro Asp Phe Lys Leu Tyr Tyr Lys Gly Thr Val Thr Lys 150 155 160

Thr Ala Trp Ala Val Thr Phe Ala Lys Glu Ala Glu Phe Glu Ser Thr 165 170

Met Gln Lys Asp Ser Ser Cys Ser Pro Ala Met Glu Gln Ser Trp Thr

Glu Asn Asp Phe Asp Glu Leu Thr Glu Val Gly Phe Arg Asn Ile Ile 195 200 205

Thr Ile Thr Ile Ile Phe Thr Ile Thr Ile Ile Ile Thr Ile 210 215 220

Thr Ile Ile Thr Val Ile Ile Thr Thr Met Ile Ile Thr Ile Ile Met 225 235 240

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Ile Ile Thr Ile Ile Thr Ile 260

117 45

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Glu Ala Leu Ala Cys Gly Pro Thr Trp Lys Ala Glu Gln Val Gln Ser 20 25 30

Tyr His Val Leu Gly Lys Gln Arg Thr Asn His Ile Gly 40 45

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Pro Gln Gln Lys Met Leu Gln Lys

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PRT Homo sapiens

<400> 119

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Ser Gln Met Pro Ser Phe Leu Leu Pro Leu Gly Gln Gly Gly Ser Thr $20 \\ 25 \\ 30$

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35 40 45

Glu Ser Gly Gln Thr Ile Phe Gln Arg Lys Thr Lys Thr Ser Glu Glu 50 60

Gly Val Asn Ser Pro Arg Arg His Asn Asn Pro Lys Cys Leu Cys Thr 65 75 80

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Tyr Glu Ile Phe Pro Arg Thr Cys Lys Cys Tyr Glu Leu Glu Pro Glu 45

Cys Lys Ser Arg Tyr Gln His Leu Ser Glu Glu Ala Glu Asp Met Gly

50 55 60

Leu Val Val Ile Cys Pro Tyr Leu Ser Glu Ala Ala Gln Ser Pro Gln 65 70 75 80

Val Phe Glu Cys Ile Trp Ser Phe Leu Gln Ile Ser Leu Val Phe Ile 85 90 95

Ser Gln Asn Asn Leu Glu Leu Val Glu Ile Ser Gly Lys Thr Leu Gln 100 110

Asp Asp Tyr Val Thr Ile Ala Arg Val Ile Cys Asp Gln Gly Gly Arg 115 120 125

Val Val Asn Phe Gly Ile Ser Trp Lys Leu Glu Val Arg Gly Leu Asp 130

Arg Asp Gly Lys Ser Cys Pro Gln Asp Pro Glu Lys Asp Ser Lys Glu 145 150 155 160

Gln Pro Asn Leu Thr Glu Gly Glu Lys Ala Lys Gly Ala Val Cys Lys 165 170 175

Asn Gln Ile Ser Trp Ser Leu Ala Ser Ala Lys Leu Leu Cys Val Gly 180 185

Arg Val

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26 PRT

Homo sapiens

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<210> 122

<212> <213> PRT Homo sapiens

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| Gly Glu Ser Pro Glu Val Arg Ser Ser Lys Pro Asp Trp Pro Arg Trp 45 45 | |
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| atctatggca aagtgattga gaagactgat gaagaaatca gatccttgtt ctatgagttt | 120 |
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| ccaagaagtt cagatagaaa atga | 240 |
| | 264 |
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| <210> 127 <211> 228 <212> DNA <213> Homo sapiens | |

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| aaaggagaag gacacggaa | a gaaacccaca cacgtcatca gttacagttc ctctaaa | aga 120 |
| aaaagcctgt tcttctgga | a agagagcatt tatttcatca tagctgctat gcttgtt | gct 180 |
| actaaggctg ctaatcaga | t ttatgaaggc cagcccaccc agagctga | 228 |
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| aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa | t tttctcttcc ttagtgctgt gttttcttcc tatgaaaa | aga 120 |
| aaaaaayaaa ayactccaga | a tggagagcct caaattgtcg gcagatttga aactccco | ctg 180 |
| gaattigtat tggtgatgca | a gagtttggtg cagactgaca acaaaactgc attctctg | gat 240 |
| adtititient ataagteeag | g attgagcgac aagctgccat ctgttcctct gccagctt | tgg 300 |
| atgcatagtt ggaatctag | attccataaa ggcattcgga ttgcattcag acaatgtt | tc 360 |
| aatcatccta agtctaggat | gtaccagtcc tctcttgcca atactgtact atgtgcaa | agt 420 |
| tttgattacc tgtttcgaga | tgaggagcca gggctttcca atatctgcac attttcat | ca 480 |
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| aagcccctgg tggattataa | ataa | 564 |
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| | | gg 420 |

| | g aagacttgga | | | | | 480 |
|------------------------|--------------|------------|------------|------------|------------|------|
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| ggtatgtta | ttaaaacgat | ctcggaccag | ccctcaggag | ctgtcagagg | aactaagcag | 600 |
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| | g atgctaaggg | | | | | 720 |
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| gaatgggtgt | gctgggagcg | tgcactgagg | ctgaccagaa | tanacancat | aaaaaaaa | 240 |
| cctttgccct | gtatcctcag | ttgtattgga | gcaatggaag | ccacancect | cttgaaacet | 300 |
| gtcagctgtc | tgaccttcag | aaagtgtgtg | gactatttct | aactageeee | ggaaagacet | 360 |
| attgcatggg | aaaggaaatc | ctcatatgag | tatcaactaa | attttaaata | Stattatas | 420 |
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| aagttcatat | ggaaccaaaa | aagagcccac | atagccaaga | aaatcctaag | caaaaagaac | 420 |
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| gaagtaggct tcagaaacat catcaccatc accatcatct tcaccatcac catcatcatc | 660 |
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| tcaaaaccag actggccaag atggcaaaac scott | 120 |
| tcaaaaccag actggccaag atggcaaaac cccatatcta caaaaaatgc aaaaattagc | 180 |
| | 195 |
| | |